Catalog
UPS

2025

AEC

www.aecups.com

UPS Online | Series ETHERNO

Power capacity: 10-30 kVA

The ETHERNO three-phase UPS (10-30kVA) are AEC's three-phase online UPS range, double conversion tower UPS in powers 10kVA - 20kVA - 30kVA.
UPS ETHERNO series adopts the most innovative 3-level IGBT technologies, ensuring **efficiency up to 94%** and a unitary output power factor.

ETHERNO UPS Series incorporates cutting-edge features to ensure reliable and continuous power protection for critical electronic equipment.
One of its standout features is the **internal lithium battery hot swappable modules.**

Description

Discover the AEC Etherno Series UPS (10–30 kVA), a next-generation three-phase solution designed for demanding 208V power applications. Its cutting-edge **3-level IGBT inverter** architecture delivers up to 94% AC-AC efficiency, ensuring lower energy losses and minimal heat output. With a **unity output power factor (PF = 1)**, it provides full active power, maximizing capacity and performance for every connected load.
Each Etherno unit features **advanced internal lithium $LiFePO_4$** batteries, offering longer lifespan, rapid recharge, and superior reliability compared to VRLA systems. A smart Battery Management System (BMS) continuously monitors battery health for enhanced safety and performance. The **large color touchscreen display** provides intuitive, real-time access to system status and configuration. Built-in RS485, Dry contact, and EPO ports come standard.

UPS Uninterruptible Power Supply 3 Phase 208V
Online double conversion **3 Level IGBT Technology**;

Unity output power factory PF=1 **kVA=kW**;

Hot-swappable Lithium 50Ah Modules;

4.3" Touch screen color display;

Cold start - Self cleaning and other smart functions

Input-Output 3 Phase 208/208V;

Ultra-high efficiency up to **94%**;

Modbus and dry contact standard communications;

Fully customizable by display;

15 Years life span LiFePO4 internal modules .

Features

TIER 1 UPS
Longest backup

LFP Lithium
LiFepO4 Batteries

40A Charger for
fast recharge

LiFePo4

THREE LEVEL 3 UPS

kW = kVA

94% Efficiency

WARRANTY 5 YEARS

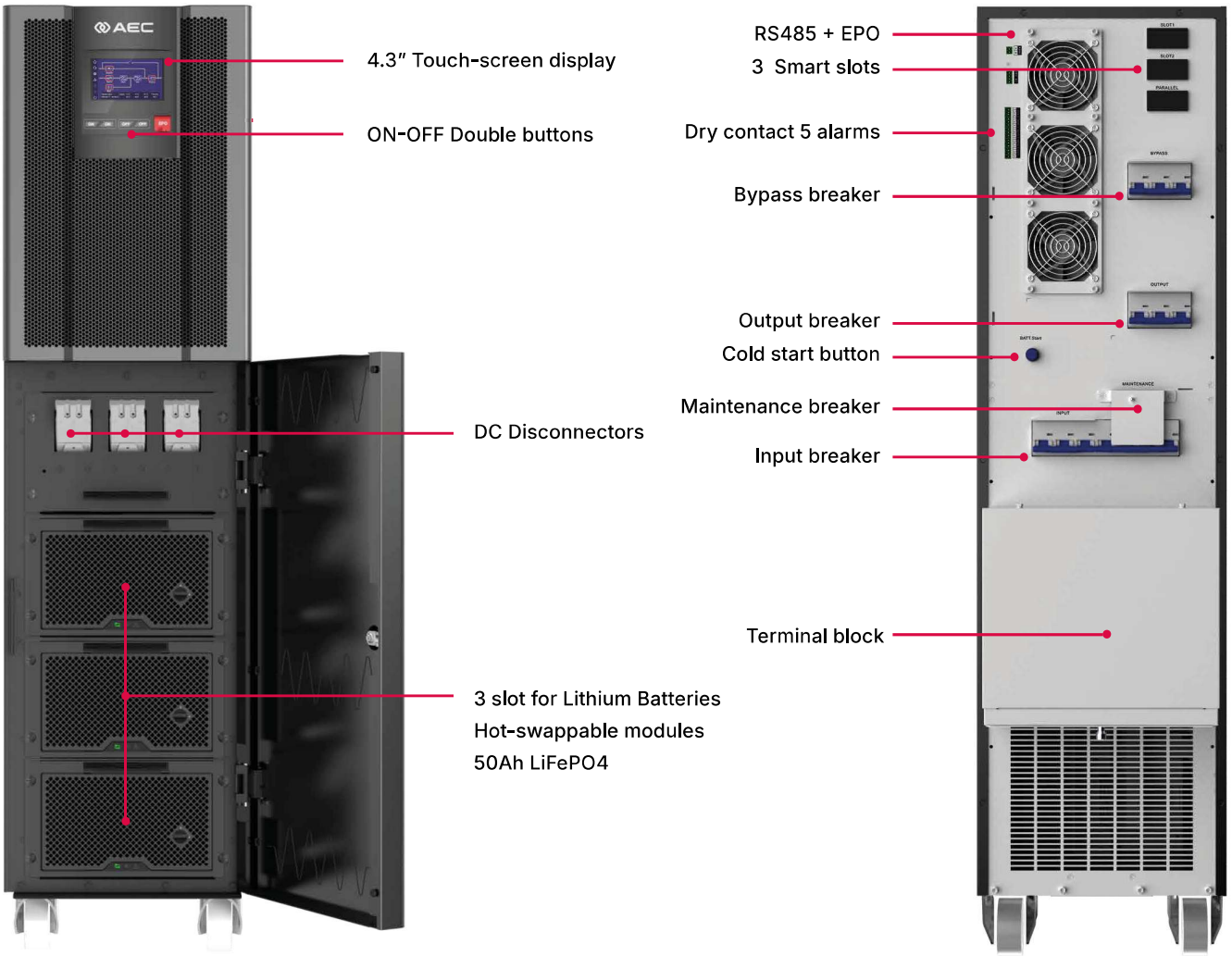
24h/7 ASSISTANCE

Scan the QR code to find out more informations on ETHERNO UPS!

UPS 3 Phase with hot-swappable internal Lithium modules

UPS ETHERNO Autonomy backup runtime chart		
Load level	50%	100%
Etherno 10kW 1 x Lith Bat	28 Minutes	14 Minutes
Etherno 10kW 2 x Lith Bat	55 Minutes	28 Minutes
Etherno 10kW 3 x Lith Bat	82 Minutes	41 Minutes
Etherno 20kW 2 x Lith Bat	28 Minutes	14 Minutes
Etherno 20kW 3 x Lith Bat	41 Minutes	21 Minutes
Etherno 30kW 3 x Lith Bat	28 Minutes	14 Minutes

Details



ETHERNO 10-20-30kVA

Touch screen Smart Display

Clear Display: A 4.3-inch color touchscreen provides an easy and intuitive way to control the UPS.

Secure Access: Three access levels (User, Technician, Manufacturer) protect system settings.

Full Configuration: Adjust input, output, battery, communication, language, and operating modes directly from the screen.

Live Monitoring: View real-time data like voltage, load, frequency, and battery status by cell at a glance.

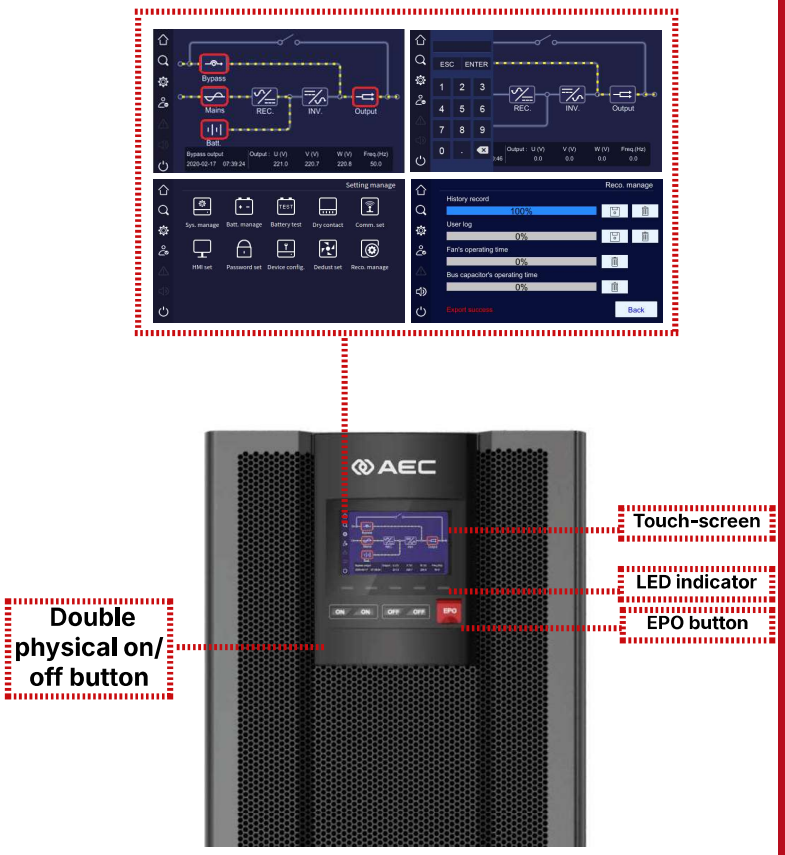
Event History: The UPS logs up to 10,000 events, downloadable via the built-in USB port.

Generator Ready: Advanced settings ensure stable operation and communications with diesel generators.

Custom Alarms: Set and manage dry contact alarms right from the touchscreen.

Self-Cleaning: Automatic fan cycles help remove dust and keep internal parts clean.

Waveform Display: The system periodically records inverter, rectifier, and control waveforms for diagnostics.



4.3 inches Touch Screen

LiFePO4 Lithium technology

10X Longer runtime: Lithium ($LiFePO_4$) offers up to 10× more runtime with the same physical size.

Up to 15 Years Lifespan: UPS with Lithium batterie boasts a 15-year lifespan, compared to VRLA's typical 3–5 years, based on normal operation.

140° Working Tolerance: performs reliably across extreme temperatures, unlike VRLA which needs strictly controlled environments.

60% Lighter: Thanks to higher energy density and lighter chemistry, UPS with Lithium batteries are significantly lighter, more portable and easier to handle.

Fully recharged in 2 Hours: recharges in about 2 hours, much faster than VRLA's 8–10+ hour cycles.

Safer and more reliable: $LiFePO_4$ is highly resistant to thermal runaway—even under overheating, short-circuit, or physical damage, it will not explode or catch fire. This makes it significantly safer than other lithium chemistries.

Standards and certifications

Scan the QR code to download the User Manual ETHERNO 10-30kVA!

Technical specifications

MODELS	ETH10-XX50A	ETH20-XX50A	ETH30-XX50A
Input			
Voltage (VAC)	208/220Vac		
Frequency (HZ)	40~70Hz		
Input range (VAC)	120V-156V linear derating, 156V-268V at full load		
Power factor	≥0.99		
THDI	≤3%		
Phase	3W+N+G		
Socket - Plug	Socket C14 + 5ft input cable to C15P		
Output			
Power capacity (kW)	10	20	30
Power factor	1		
Voltage (VAC)	190/200/208±1%(L-L) ±1%		
Frequency (HZ)	50/60±0.1		
THD	≤1%THD, linear load; ≤4%THD, non-linear load		
Waveform	Pure sinewave		
AC/AC Efficency	AC\AC = 94%, ECO-Mode = 98,5%		
Overload	<105% continues, 105%~110% 60mins, 110%~130% load for 10 min, 130%~150% load for 1 min, 150%~200% load for 200ms		
Socket - Plug	Terminal block		
Battery			
Voltage (VDC)	240Vdc		
Lithium LFP Module Ah	50Ah (81 Lb/37 kg)		
Number of internal LFP	Min 1 - Max 3	Min 2 - Max 3	3
Max. current Charger (A)	2~40 settable (default is 20)		
Lifespan	12 - 15 Years		
Other specifications			
Recharging time	< 2 Hours		
Communications	RS485+EPO+Dry contact (1 input, 5 output)+2 slots (SNMP and Parallel Optional)		
Noise (DB)	<65dB		
Temperature (°F - °C)	0°C - 40°C 32°F - 104°F		
Umidity	<95%		
Dimensions (W*D*H) in	15×39×49 in		
Dimensions (W*D*H) cm	38*99*124 cm		
Weight (Lb - Kg) w/o batt	207 Lb - 94 Kg	227 Lb - 103 Kg	241 Lb - 109 Kg
Certifications			
Standards	UL 1778, Performance : IEC 60240-3, UL 9540 for LFP Module		

All information is for reference only, subject to change by AEC at any time, and does not constitute contractual obligations.

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